

Appl. No. 09/851,340
Amdt. dated October 26, 2004
Reply to Office action of August 12, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously presented) A method of displaying frames of images using a wearable display device, comprising:
 - generating an inner region display signal of the frame of an image;
 - determining at least one of a motion, brightness or color characteristic from the inner region display signal;
 - generating an outer region display signal of the frame of the image using the at least one motion, brightness or color characteristic;
 - displaying an inner region of the frame of the image on a display using the inner region display signal; and
 - displaying an outer region of the frame of the image on the display using the outer region display signal, wherein the outer region is of substantially lower resolution than the inner region.
2. (Previously presented) The method of claim 1, wherein generating an outer region display signal further comprises:
 - adjusting the outer region display signal so that the outer region of the frame of the image blends with the inner region of the frame of the image.
3. (Previously presented) The method of claim 1, wherein displaying an outer region of the frame of the image further comprises:
 - displaying an outer region of less than 5 cycles per degree resolution.
4. (Previously presented) The method of claim 3, wherein displaying an inner region of the frame of the image further comprises:
 - displaying a center of the inner region of at least 15 cycle per degree resolution.

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5. (Previously presented) The method of claim 3, wherein displaying an outer region of the frame of the image further comprises:
illuminating an array of red, blue and green lights.
6. (Currently amended) A method of displaying frames of images using a wearable display device, comprising:
generating an inner region display signal of the frame of an image;
determining at least one of a motion, brightness or color characteristic from the inner region display signal;
generating an outer region display signal of the frame of the image using the at least one motion, brightness or color characteristic;
displaying an inner region of the frame of the image on a display using the inner region display signal; and
displaying an outer region of the frame of the image on the display using the outer region display signal by The method of claim 3, wherein displaying an outer region of the frame of the image further comprises: illuminating an array of white lights, wherein the outer region is of less than 5 cycles per degree resolution.
7. (Previously presented) The method of claim 1, wherein displaying an outer region of the frame of the image further comprises:
shining red, blue and green lights into a user's field of view.
8. (Previously presented) A wearable display, comprising:
a display comprising a plurality of pixels, the display having an inner region and an outer region of substantially lower resolution than the inner region; and
a controller operably coupled to the display, wherein the controller generates an inner region display signal, and an outer region display signal using at least of one of a motion, brightness or color characteristic from the inner region display signal.

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9. (Original) The display of claim 8, wherein the outer region is of less than 5 cycles per degree resolution.

10. (Original) The display of claim 8, wherein the inner region is of at least 15 cycle per degree resolution at a center of the inner region.

11. (Original) The display of claim 9, wherein the outer region comprises:
an array of red, blue and green lights.

12. (Currently amended) A wearable display, comprising:
a display comprising a plurality of pixels, the display having an inner region
and an outer region. The display of claim 9, wherein the outer
region comprises: an array of white lights, and wherein the outer
region is of less than 5 cycles per degree resolution; and
a controller operably coupled to the display, wherein the controller
generates an inner region display signal, and an outer region
display signal using at least one of a motion, brightness or color
characteristic from the inner region display signal.

13. (Previously presented) A method of displaying images using a wearable display, comprising:
determining an amount of distortion for image signal data, the distortion
acting to distort a source image conveyed by the image signal data
so that a field of view of the source image is expanded;
adjusting the image signal data so that the source image conveyed by the
image signal data is distorted according to the determined amount
of distortion;
generating a display signal using the adjusted image signal data; and
displaying a distorted image on a display by using the display signal.

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14. (Original) The method of claim 13, wherein the step of adjusting the image signal data comprises:

creating a distortion ratio between an inner region and an edge of the source image of between 2:1 and 20:1.

15. (Original) The method of claim 14, comprising:

sampling a source image signal to obtain the image signal data.

16. (Previously presented) A wearable display, comprising:

a display comprising a plurality of pixels, the display having an inner region and an outer region; and

a controller operably coupled to the display, wherein the controller obtains image signal data from a source image signal and generates a display signal by determining an amount of distortion for the image signal data, and adjusting the image signal data so that a source image conveyed by the image signal data is distorted according to the determined amount of distortion, the source image distorted on the display in the outer region.

17. (Original) The display of claim 16, wherein the distortion ratio between an inner region and an edge of the source image is between 2:1 and 20:1.

18. (Original) The wearable display of claim 16, comprising:

an image source coupled to the controller, wherein the image source generates the source image signal.

19. (Original) The wearable display of claim 18, wherein the controller comprises:

a processor operably coupled to the image source, wherein the processor samples the source image signal.

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20. (Original) A wearable display, comprising:
a display for displaying images;
a controller operably coupled to the display, wherein the controller obtains image signal data from a source image signal and generates a display signal for display by the display; and
optics arranged in the wearable display, wherein the optics modify an image displayed by the display by distorting an outer region of the image by a greater amount than an inner region of the image so that a field of view of the image is increased.
21. (Original) The wearable display of claim 20, wherein a distortion ratio between a portion of the outer region and a portion of the inner region is between 2:1 and 20:1.